# MODEL CX-710ME S

## ■ NOTE

○ TV Circuit Section

1. The measuring is made as in connection with an AC source.
2. The voltage and oscillation from the TV circuit section are measured with the multimeter/oscilloscope, provided that the reception of PAL color bar signals is sufficiently sensitive (0.825 V Vp-p from the top of sync. signal to white peak, percentage modulation 85%).

○ TRC-2210A (RADIO P.B.ASS'Y)

1. The specified voltage value is measured with each swtich set at the following position.

| Switch / Broadcast | Radio Band Switch | Mode Selector Switch | Mute Switch |
|---|---|---|---|
| FM MONO. | FM | Monaural | OFF |
| FM STEREO | FM | Stereo | OFF |
| AM (MW or SW) | MW or SW | Monaural | OFF |

2. The specified voltage value is applicable to the reception of FM monaural radio programs with the radio band change-over switch set at the FM position.
3. When the voltage value varies depending on the type radio programs received, the value is specified as follows:
   - The voltage value enclosed in parentheses ( ) is applicable to the reception of AM (MW/SW) radio programs.
   - The voltage value enclosed in brackets < > is applicable to the reception of FM stereo radio program.

○ TRC-6010A (R/P AMP P.B.ASS'Y)

1 .The specified value of voltage is applicable to the mode of no-signal playback with the tape change-over switch set at the NORMAL position and with the mute switch set at the OFF position.

2 .When the voltage value varies under the recording mode, this value is specified as follows:
   - The parenthesized voltage value is applicable to the mode of no-signal recording.

○ TRC-6120A (AUDIO OUTPUT P.B.ASS'Y)

1 .The specified value of voltage is applicable to the reception of TV programs with the mute switch set at the OFF position and with the mode change-over switch set at the STEREO position.

○ TRC-9210A (POWER P.B.ASS'Y)
The voltage value of TRC-9210A P.B. is applicable to a case where the PLAY button is depressed with the TV/RADIO/TAPE change-over switch set at the TAPE position.

○ The measurements were made with the each VR under the condition just after the shipment. The figures of the signal circuits may be more or less different after adjustment, so use the figures simply for reference.
Multimeter used
DC 20 kΩ/V
Given figures are all DC voltages. Sweep speed of oscilloscope:
H → 20 μS/div.
V → 5 mS/div.
Other→sweep speed specified

○ Since the circuit diagram is a standard one, the circuit and curcuit constants may be subject to change for improvement without any notice.

## ■ SCHEMATIC NOTES

UNLESS OTHERWISE SPECIFIED
Resistance: [Ω](K→kΩ, M→MΩ), 1/4[W]
carbon resistor
Capacitance: 1 or highrer→ [pF], less than 1→[μF]
working voltage→50[V]
ceramic capacitor
Inductance: [μH]
ELECTROLYTIC CAP.: capacitance value [μF] / working voltage [V], NP → non-polar (or bipolar) electrolytic cap.
Refer to the parts list in the SERVICE MANUAL about the taill-ed indications of parts.
⊙ symbols indicate test point connections.
⏚ indicates chassis ground.
Hz indicates cycles per second.

## ■ FOR SAFETY AND CONTINUED GOOD PERFORMANCE

○ FR is an abbreviation of Fusible Resistor (⎓), and operate a Fuse.
○ Replacing Fuse, FR and shaded ( ) parts, be sure to use parts specified for safety purposes.
○ For maximum reliability and performance, all other replacement parts should be identical to those specified.

## ■ CHECKPOINT OF B1 VOLTAGE(28 V)

(1) Checking is possible at the position shown in Fig. A. (Refer to the MAIN ADJUSTMENTS LOCATION for the position of the B1 ADJ. VR.)
(2) Check or adjust B1 voltage under the item "Adjustment of B1 voltage".

## ■ ADJUSTMENT OF B1 VOLTAGE

Adjusting B1 voltage, use an accurate voltmeter. Should B1 control be set too high, it may cause possible damage of components.
Using a simple volt meter, it must be calibrated.

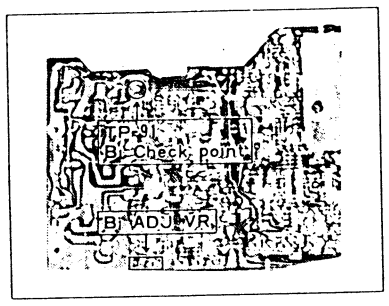
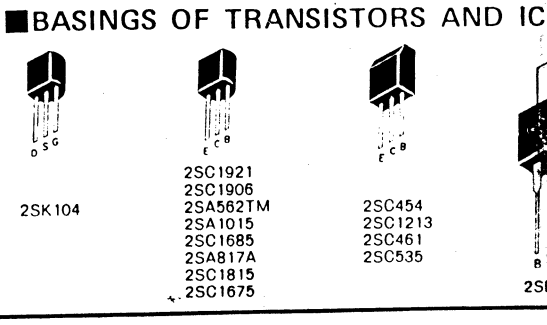
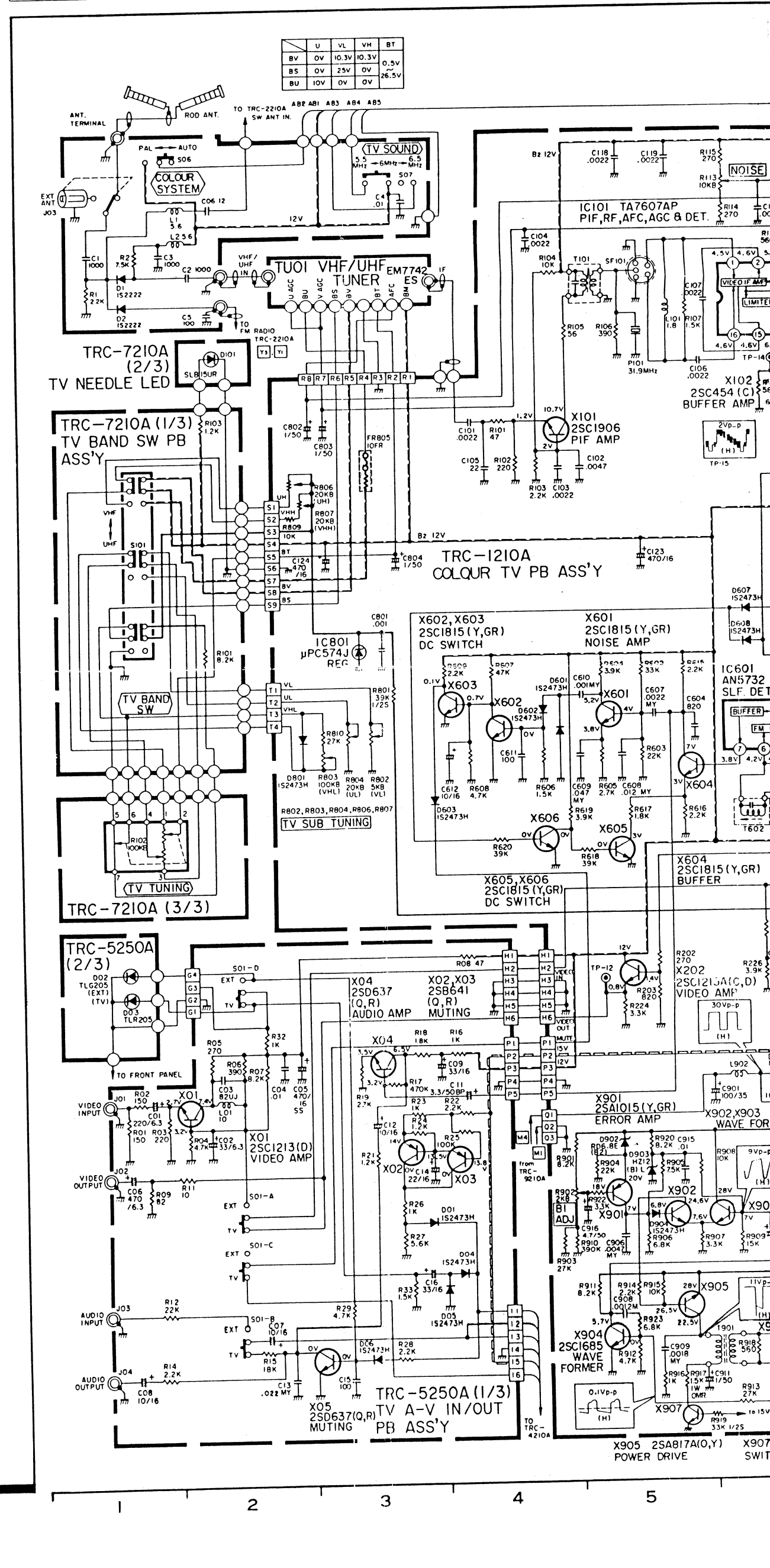



Fig. A

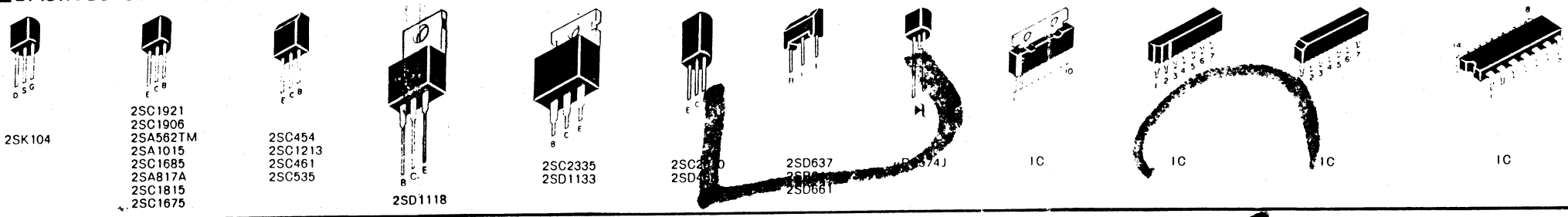
■BASINGS OF TRANSISTORS AND IC

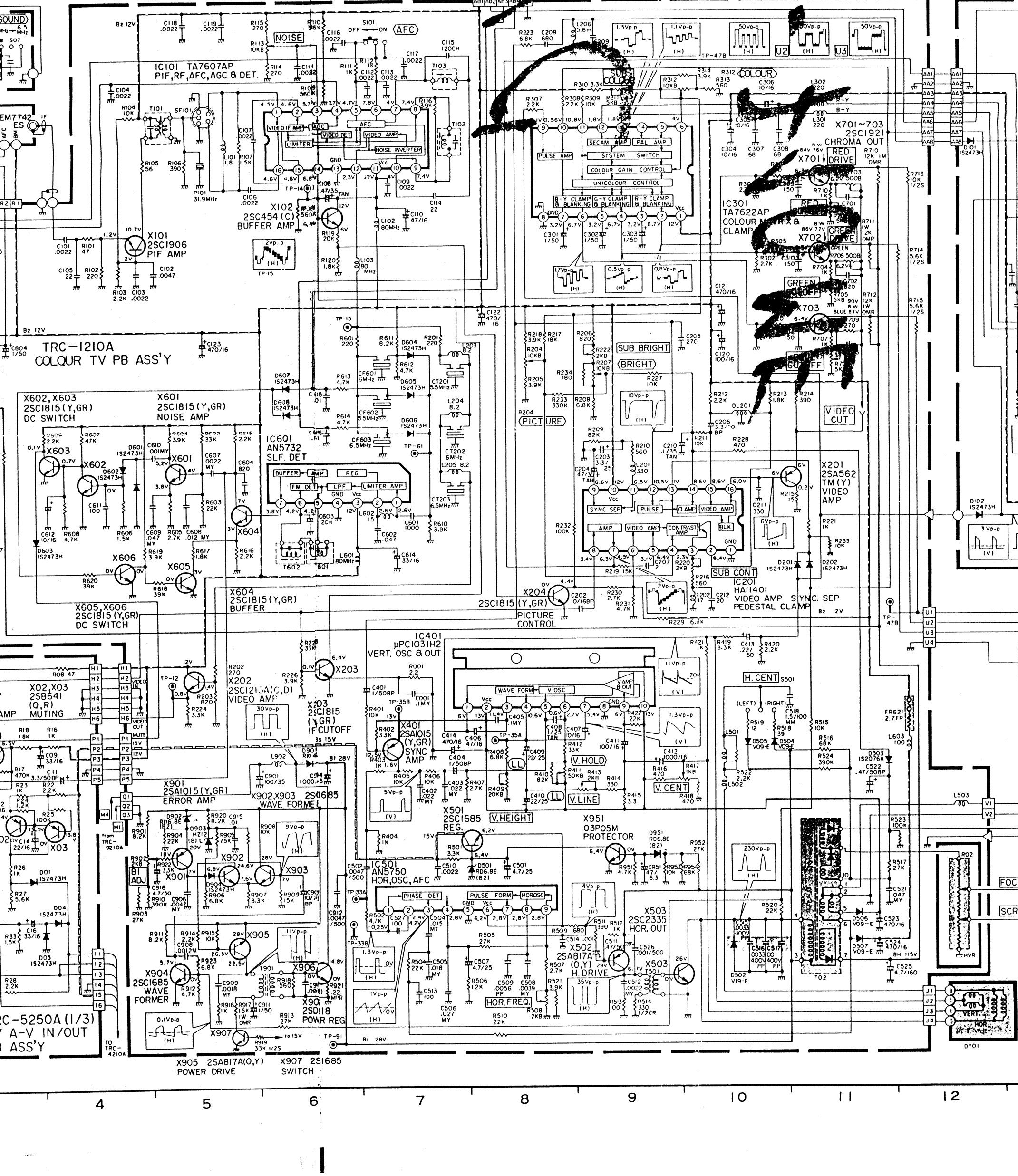


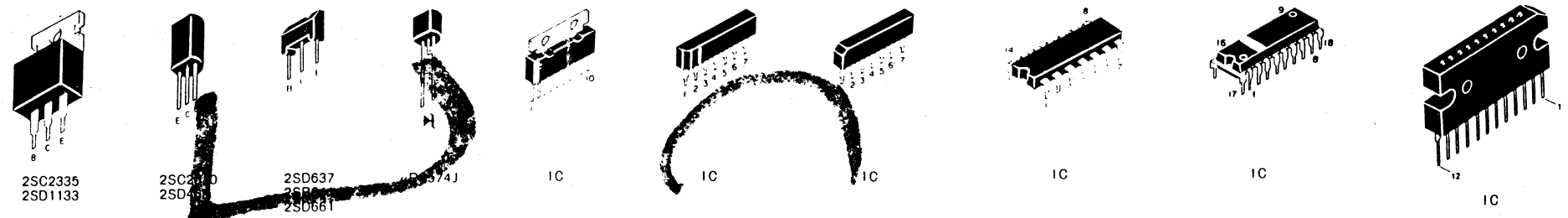
# ODEL CX-710ME SCHEMATIC DIAGRAM

## ■BASINGS OF TRANSISTORS AND ICs



# MATIC DIAGRAM




* ( ) Voltage : SECAM.

TRC-5250A(3/3)
PAL/SECAM
PB ASS'Y

IC401
μPC1031H2
VERT. OSC & OUT

X401
2SA1015
(Y,GR)
SYNC
AMP

X501
2SC1685
REG.

IC501
AN5750
HOR,OSC,AFC

X204
2SC1815 (Y,GR)
PICTURE
CONTROL

IC201
HA11401
VIDEO AMP SYNC. SEP
PEDESTAL CLAMP

IC301
TA7622AP
COLOUR MATRIX &
CLAMP

X701~703
2SC1921
CHROMA OUT

X201
2SA562
TM(Y)
VIDEO
AMP

X502
2SA817A
(O,Y)
H.DRIVE

X503
2SC2335
HOR. OUT

X951
03P05M
PROTECTOR

IC102
AN5630N
SECAM
CHROMA

IC101
AN5620X
PAL
CHROMA

DL AMP

CRT SOCKET

FOCUS

SCREEN

VERT.

HOR.

V01
1508MB22(E)

DY01